## GRAYCARY．technology＇s legrledge

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From：Lisa A．Haile，J．D．，PhD．A

Client－Matter Number：101668－17AX RECEIVED

Re：United States Patent Appllcatlon No．：09／889，251 Ent｜tled：METHODS OF TREATING MITOCHONDRIAL DISORDERS GROUP 1600 Inventor：Robert K，Naviaux Filed：$\quad$ November 1， 2001 Our Ref．No．：UCSD1140－1

Pages：－ 2 －（including this form） Originals：$⿴ 囗 㐅$ will be mailed $\square$ will not be mailed

If there is a problem with this transmission，please call（858）638－6715／Carrie Bickle Message：

In advance of our telephone interview scheduled for Monday，February 24，2003，following for your review is an alternative versiop of claim 1 in the above－identified application．The alternative claim language set forth herein likely serves as a good starting point for our discussion on Monday．

Gray CarylGTh6335837．1
101668－17

## CONFIDENTIALITY NOTICE

This communication is ONLY for the person named above．Unless otherwisc indicated，it contains infomation that is confidential， priviloged or oxempt from disclosure under applicable law．If ypu are not the parsan named above，or responsible for delivaring it to that person，be aware that disclosure，copying，distribution or use of this communication is strictly PROHIBITED．If you have recelved if in error，or are uncertain as tol ita proper handling，ploase immediately notify us by collect telephone and mail the original to us as the above address．Thank you，：
（Form Rev．6／5／00）
... 1. (Amended) A method for the treatment of a mitochondrial disorder comprising administering to a subject having or at risk of having such disorder an effective amount of a compound of Formula I:

(I)
wherein:
$\mathrm{R}_{1}$ is $\mathrm{O}, \mathrm{OH}, \mathrm{NHCOCH}_{3}$, or $\mathrm{NH}_{2}$,
$\mathrm{R}_{2}$ is $\mathrm{H}, \mathrm{CO}_{2} \mathrm{H}$, or

wherein:
each X is independently H of optionally substituted $\mathrm{C}_{1}-\mathrm{C}_{22}$ alkyl, optionally substituted $\mathrm{C}_{1}-\mathrm{C}_{22}$ alkenyl, of optionally substituted $\mathrm{C}_{1}-\mathrm{C}_{22}$ alkynyl, with substituents selected from the group consisting of $\mathrm{H}, \mathrm{C}_{1}-\mathrm{C}_{3}$ alkyl, OH , $\mathrm{NH}_{2}$, and halogen,
$R_{3}, R_{4}$, and $R_{s}$ are each independently optionally substituted $C_{1}-C_{22}$ alkyl carbonyl, with substituents selected from the group consisting of $\mathrm{C}_{1}-\mathrm{C}_{3}$ allyyl, $\mathrm{OH}, \mathrm{NH}_{2}$, and halogen, or $H$, wherein at least one of $R_{3}, R_{4}$, and $R_{5}$, are not H , and
wherein the administration of a compound of Formula (1) augments de
novo synthesis of pyrimidines in a cell intended to be so treated thereby treating the disorder,

